## IN THE CLAIMS:

## Please amend Claims so as to read as follows:

1. (Four Times Amended) A liquid crystal display device, comprising:

a liquid crystal display element including:

a pair of substrates; , and

a liquid crystal layer sandwiched by the said substrates;

a pair of polarizers disposed so as to sandwich the <u>said</u> liquid crystal display element; and

at least one phase difference plate , each of said at least one

phase difference plate defining a surface and being

disposed between the said liquid crystal display element

and the said pair of polarizers ;

wherein the (i) each of said at least one phase difference plate has three principal refractive indices  $n_a$ ,  $n_b$ , and  $n_c$ , (ii) said refractive indices are [being] mutually related by the inequality  $n_a < n_b < n_c$ , wherein the (iii) the direction of said principal refractive index  $n_a$  coincides with the direction of a y – coordinate axis among x and y – coordinate axes on said surface, said y – coordinate axis being orthogonal to said normal, and (iv) the direction of said principal refractive index  $n_b$  inclines relative to the normal to a said surface and to the direction of said x-coordinate axis of the phase difference plate, and

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wherein the refractive index anisotropy  $\Delta n$  (550) of the <u>said</u> liquid crystal material for rays of light having the wavelength of 550 nm is specified to be more than 0.060 and less than 0.120, and

wherein the refractive index anisotropy of said liquid crystal

material varies with other wavelengths of rays of light

within a range that allows substantially no viewing angle

dependent coloration to occur in an image displayed by said

device.

## 2. (Cancelled)

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- 3. (Amended) The liquid crystal display device as defined in claim 1, wherein the refractive index anisotropy  $\Delta n$  (550) is specified to be not less than 0.065 and not more than 0.115.
- 4. (As originally filed) The liquid crystal display device as defined in claim 3, wherein the refractive index anisotropy  $\Delta n(550)$  is specified to be not less than 0.070 and not more than 0.095.
- 5. (As originally filed) The liquid crystal display device as defined in claim 1, wherein the inclination angle of the principal refractive index nb of the phase difference plate is specified to be in the range from 15° to 75°.

6. (Twice Amended) A liquid crystal display device, comprising:

a liquid crystal display element including:

a pair of substrates;, and

a liquid crystal layer sandwiched by the said substrates;

a pair of polarizers disposed so as to sandwich the said liquid crystal display element; and

at least one phase difference plate , each of said at least one phase

difference plate defining a surface and being disposed

between the said liquid crystal display element and [the]

said pair of polarizers ;

wherein the each of said at least one phase difference plate (i) has three principal refractive indices  $n_a$ ,  $n_b$ , and  $n_c$  being , (ii) said refractive indices are mutually related by the inequality  $n_a < n_b < n_c$ , wherein (iii) the direction of said principal refractive index  $n_a$  coincides with the direction of a y – coordinate axis among x and y – coordinate axes on said surface, said y – coordinate axis being orthogonal to said normal, and (iv) the direction of the principal refractive index  $n_b$  inclines relative to the normal to a said surface and to the direction of said x-coordinate axis of the phase difference plate, and

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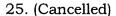
wherein (i) the refractive index anisotropy Δn (550) of the liquid crystal material for rays of light having the wavelength of 550 nm is specified to be more than 0.060 and less than 0.120, and wherein (ii) Δn (450) - Δn (650), i.e., the difference between the refractive index anisotropy Δn (450) of the liquid crystal material for rays of light having a wavelength of 450 nm and the refractive index anisotropy Δn (650) thereof for rays of light having the wavelength of 650 nm, is specified to be not less than 0.0070 and not more than 0.0250, and (iii) the refractive index anisotropy of said liquid crystal material varies with other wavelengths of rays of light within a range that allows substantially no viewing angle dependent coloration to occur in an image displayed by said device.

- 7. (As originally filed) The liquid crystal display device defined in claim 6, wherein  $\Delta n(450) \Delta n(650)$  is specified to be not less than 0.0200 and not more than 0.0250.
- 8. (As originally filed) The liquid crystal display device as defined in claim 6, wherein the inclination angle of the principal refractive index nb of the phase difference plate is specified to be in the range from 15° to 75°.
- 9. (Cancelled)

- 10. (Amended) The liquid crystal display device as defined in claim 6, wherein the refractive index anisotropy  $\Delta n$  (550) is specified to be not less than 0.065 and not more than 0.115.
- 11. (As originally filed) The liquid crystal display device as defined in claim 10, wherein the refractive index anisotropy  $\Delta n$  (550) is specified to be not less than 0.070 and not more than 0.095.
- 12. (Cancelled)
- 13. (Amended) The liquid crystal display device as defined in claim 6, wherein the optical phase difference plate includes: a support base composed of a transparent organic high polymer; and a liquid crystal polymer layer formed on the support base to be aligned to possess oblique orientation and crosslinked.
- 14. (Twice Amended) the liquid crystal display device as defined in claim 6 8, wherein the optical phase difference plate includes: a support base composed of a transparent organic high polymer; and a liquid crystal polymer layer formed on the support base to be aligned to posses hybrid orientation and crosslinked.

10. Cancenta	15.	(Cancelled)
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- 16. (Cancelled)
- 17. (Cancelled)
- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Cancelled)
- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)



- 26. (Cancelled)
- 27. (Cancelled)
- 28. (Cancelled)
- 29. (Twice Amended) A liquid crystal display device, comprising:
  - a liquid crystal display element including a liquid crystal layer sandwiched by a pair of light-transmitting substrates each having an electrode layer provided thereon;
  - a pair of polarizers disposed so as to sandwich the <u>said</u> liquid crystal display element; and
  - at least one phase difference plate ,each said phase difference

    plate defining a surface and being disposed between the

    said liquid crystal display element and the said pair of
    polarizers,



wherein the improvement comprises that (i) each of said the at least one phase difference plate has having three principal refractive indices n<sub>a</sub>, n<sub>b</sub>, and n<sub>c</sub> being mutually related by the inequality  $n_a < n_b < n_c$ , and the direction of the principal refractive index n<sub>a</sub> coinciding with the direction of a ycoordinate axis among x and y-coordinate axes on each said surface of said at least one phase difference plate, the y-coordinate axis being orthogonal to said normal, and the direction of the principal refractive index nb inclines inclining relative to the normal of a to said surface of said at least one phase difference plate and to the direction of said x-coordinate axis, and that, (ii) the liquid crystal layer is constituted by a liquid crystal material wherein the refractive index anisotropy  $\Delta n$  (550) of the liquid crystal material for rays of light having the wavelength of 550 nm is being specified to be more than 0.060 and less than 0.120, and wherein (iii) Δn (450) - Δn (650), i.e., the difference between the refractive index anisotropy  $\Delta n$  (450) of the liquid crystal material for rays of light having a wavelength of 450 nm and the refractive index anisotropy Δn (650) thereof for rays of light having the wavelength of 650 nm, is being specified to be not less than 0.0070 and not more than 0.0250, such that and (iv) the refractive index anisotropy thereof of said liquid crystal material being is specified to vary with other wavelengths of rays of light within a range that allows substantially no viewing-angle dependent coloration to occur on a displayed image.

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30. (Cancelled)

31. (Twice Amended) A liquid crystal display device, comprising:

a liquid crystal display element including:

a pair of substrates ; , and

a liquid crystal layer sandwiched between the said substrates;

a pair of polarizers disposed so as to sandwich the said liquid crystal display element; and

at least one phase difference plate, each said at least one phase difference plate defining a surface and being disposed between the said liquid crystal display element and the said pair of polarizers,

wherein (i) the each of said at least one phase difference plate has three principal refractive indices n<sub>a</sub>, n<sub>b</sub>, and n<sub>c</sub> being mutually related by the inequality  $n_a < n_b < n_c$ , and (ii) the direction of the principal refractive index na coincides with the direction of a y-coordinate axis among x and y-coordinate axes on each said surface of said at least one phase difference plate, the y-coordinate axis being orthogonal to said normal, and (iv) the direction of the principal refractive index no inclines relative to the normal of a to said surface and to the direction of said x-coordinate axis of said at least one phase difference plate;

wherein  $\Delta n$  (450) -  $\Delta n$  (650), i.e., the difference between the refractive index anisotropy  $\Delta n$  (450) of the liquid crystal material for rays of light having a wavelength of 450 nm and the refractive index anisotropy  $\Delta n$  (650) thereof for rays of light having the wavelength of 650 nm, is specified to be not less than 0.0070 and not more than 0.0250, and

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wherein the refractive index anisotropy of said liquid crystal material
varies with other wavelengths of rays of light within a range that
allows substantially no viewing angle dependent coloration to
occur in an image displayed by said device.

- 32. (New Claim, 1/26/01) The liquid crystal display device as defined in claim 31, wherein the refractive index anisotropy  $\Delta n$  (550) of the liquid crystal material for rays of light having the wavelength of 550 nm is specified to be more than 0.060 and less than 0.120.
- 33. (New Claim, 1/26/01) The liquid crystal display device as defined in claim 31, wherein the refractive index anisotropy  $\Delta n$  (550) is specified to be not less than 0.065 and not more than 0.115.
- 34. (New Claim, 1/26/01) The liquid crystal display device as defined in claim 31, wherein the refractive index anisotropy  $\Delta n$  (550) is specified to be not less than 0.070 and not more than 0.095.
- 35. (New Claim, 1/26/01) The liquid crystal display device as defined in claim 31, wherein  $\Delta n$  (450)  $\Delta n$  (650) is specified to be not less than 0.0200 and not more than 0.0250.

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36. (New Claim, 1/26/01) The liquid crystal display device as defined in claim 32, wherein the refractive index anisotropy  $\Delta n$  (550) of the liquid crystal material for rays of light having the wavelength of 550 nm is specified to be not less than 0.065 and smaller than 0.115.

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37. (New Claim, 1/26/01) The liquid crystal display device as defined in claim 36, wherein the refractive index anisotropy  $\Delta n$  (550) is specified to be not less than 0.070 and not more than 0.095.

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. Cancelled)



- 45. (Cancelled)
- 46. (Cancelled)
- 47. (Cancelled)

48. (New Claim on 8/16/02) The liquid crystal display as defined in claim 31, wherein the inclination angle of the principal refractive index n<sub>b</sub> of the phase difference plate is specified to be in the range from 15° to 75°.

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